

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Previously Amended) A motor stator comprising a lamination body in which conductive layers and insulating layers are laminated alternately, a plurality of sets of coils of wound conductive patterns being formed on each conductive layer, and said coils of conductive layers being connected to each other via through holes formed on said insulating layers.

2. (Original) The stator according to claim 1 characterized in that a drive circuit of said coil is provided in at least one of said conductive layers.

3. (Previously Amended) The stator according to claim 1 characterized in that said conductive layer is formed on an insulating substrate as said insulating layer.

4. (Previously Amended) The stator according to claim 1 characterized in that each winding of the coils of the conductive layers adjoining each other via said insulating layers are connected to each other via said through holes.

5. (Original) The stator according to claim 1 characterized in that said conductive pattern is formed in a planar direction of the conductive layer.

6. (Previously Amended) A motor stator comprising a lamination body in which conductive layers and insulating layers are laminated alternately, a plurality of sets of coils of wound conductive patterns being formed on the conductive layer, said coils being connected to each other via through holes formed on said insulating layers, and said coils being formed in a layered direction of a plurality of conductive layers.

7. (Previously Amended) A motor comprising the stator according claim 1 and a rotor comprising a permanent magnet.

8. (Previously Amended) A coil structure comprising and wherein a plurality of conductive layers and insulating layers are laminated alternately, coils with wound conductive patterns are formed on each conductive layer, the coils being electrically connected with one another via through holes formed in said insulating layers, said through hole is formed for each wind of said conductive pattern of said coil, which, via said through hole, is electrically connected with each wind of the conductive pattern of the coil of the conductive layers adjoined via said insulating layers.

9. (Previously Amended) The coil structure according to claim 8 wherein said conductive pattern is formed in a planar direction of said conductive layer.

10. (Previously Amended) A coil structure comprising a lamination body in which conductive layers and insulating layers are laminated alternately, a plurality of sets of coils of wound conductive patterns being formed on the conductive layer, said coils being connected to each other via through holes formed on said insulating layers, and said coils being formed in a layered direction of a plurality of conductive layers.

11. (Previously Amended) The motor according to claim 7, wherein said stator is made of an inner stator and an outer stator which are respectively formed in a ring shape, and a rotor formed in a ring shape is provided between said stators which rotates integrally with a rotatably supported axis.

12. (Previously Amended) The motor according to claim 11 wherein said coil pattern is formed along a layered direction of said plurality of conductive layers.

13. (Previously Amended) The motor according to claim 12 wherein said coil pattern is formed in a spiral shape along a layered direction of said conductive layers.

14. (Previously Amended) The motor according to claim 13 wherein said spiral-shaped coil pattern is formed over a plurality of layers along a radial direction of the stator.

15. (New) A motor comprising:

a stator in the form of a laminated body having a plurality of substrates laminated together in a body, each substrate including an insulating layer and a plurality of sets of coils thereon, each coil having a conductive winding; each insulating layer having a through hole; and at least one winding in one substrate being electrically connected through a through hole in an insulating layer to a winding on an adjacent substrate; and

a rotor.

16. (New) The motor of claim 15 which further comprises a drive circuit on an upper surface of a top substrate, said drive circuit being electrically connected to the coils in at least the top substrate.